#TASK 1

HRITTIKA GANDHI

ASSIGNMENT 1

1. n = 5

for i in range(n, 0, -1):

for j in range(0, i):

print(n, end=' ')

print()

O/P

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2)

rows=6

for i in range(rows+1,1,-1):

for i in range(0,i):

print(i,end='')

print(" ")

O/P

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012345

01234

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3)

rows = 5

i = 1

while i <= rows :

j = 1

while j <= i:

print((i \* 2 - 1), end=" ")

j = j + 1

i = i + 1

print()

O/P

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3 3

5 5 5

7 7 7 7

9 9 9 9 9

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for i in range(1, 6):

for j in range(i, 0, -1):

print(j, end="")

print()

O/P

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54321

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start = 1

stop = 2

current\_num = stop

for i in range(2, 6):

for j in range(start, stop):

current\_num -= 1

print(current\_num, end=' ')

print("")

start = stop

stop += i

current\_num = stop

O/P

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6 5 4

10 9 8 7

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for i in range(1, 7):

if(i == 1):

res = i

else:

res = res \* 11

print(res, end="")

print()

O/P

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1331

14641

161051

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rows = 5

for i in range(1, rows + 1):

for j in range(1, rows + 1):

if j <= i:

print(i, end=' ')

else:

print(j, end=' ')

print()

O/P

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2 2 3 4 5

3 3 3 4 5

4 4 4 4 5

5 5 5 5 5

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for i in range(1, 10):

for j in range(1, i+1):

print(i\*j, end=" ")

print()

O/P

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2 4

3 6 9

4 8 12 16

5 10 15 20 25

6 12 18 24 30 36

7 14 21 28 35 42 49

8 16 24 32 40 48 56 64

9 18 27 36 45 54 63 72 81

9)

rows = int(input("Enter the number of rows: "))

k = 2 \* rows - 2

for i in range(rows, -1, -1):

for j in range(k, 0, -1):

print(end=" ")

k = k + 1

for j in range(0, i + 1):

print("\*", end=" ")

print(" ")

O/P

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10)

n = 7

m = (2 \* n) - 2

for i in range(0, n):

for j in range(0, m):

print(end=" ")

m = m - 1 # decrementing m after each loop

for j in range(0, i + 1):

# printing full Triangle pyramid using stars

print("\* ", end=' ')

print(" ")

O/P

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11)

rows =6

for i in range(0, rows):

for j in range(0, i + 1):

print("\*", end=' ')

print(" ")

print (" ")

for i in range(rows + 1, 0, -1):

for j in range(0, i - 1):

print("\*", end=' ')

print(" ")

O/P

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12)

rows =6

for i in range(0, rows):

for j in range(0, i + 1):

print("\*", end=' ')

print(" ")

for i in range(rows + 2, 0, -1):

for j in range(0, i - 1):

print("\*", end=' ')

print(" ")

O/P

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13)

rows = 5

i = 1

while i <= rows:

j = i

while j < rows:

print(' ', end=' ')

j += 1

k = 1

while k <= i:

print('\*', end=' ')

k += 1

print()

i += 1

i = rows

while i >= 1:

j = i

while j <= rows:

print(' ', end=' ')

j += 1

k = 1

while k < i:

print('\*', end=' ')

k += 1

print('')

i -= 1

O/P

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14)

rows = 5

for i in range(1,rows):

for j in range(1,i):

print('', end=' ')

k = i

for k in range(i,rows+1):

print('\*', end=' ')

print()

i = rows - 1

while i >= 0:

j = 0

while j < i:

print('', end=' ')

j += 1

k = i

while k <= rows - 1:

print('\*', end=' ')

k += 1

print('')

i -= 1

0/P

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15)

n = 16

print("\*" \* n, end="\n")

i = (n // 2) - 1

j = 2

while i != 0:

while j <= (n - 2):

print("\*" \* i, end="")

print("-" \* j, end="")

print("\*" \* i)

i = i - 1

j = j + 2

O/P

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